

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (EXCERPT)
Act 451 of 1994

324.20120a Cleanup criteria.

Sec. 20120a. (1) The department may establish cleanup criteria and approve of remedial actions in the categories listed in this subsection. The cleanup category proposed shall be the option of the person proposing the remedial action, subject to department approval, considering the appropriateness of the categorical criteria to the facility. The categories are as follows:

- (a) Residential.
- (b) Commercial.
- (c) Recreational.
- (d) Industrial.
- (e) Other land use based categories established by the department.
- (f) Limited residential.
- (g) Limited commercial.
- (h) Limited recreational.
- (i) Limited industrial.
- (j) Other limited categories established by the department.

(2) The department may approve a remedial action plan based on site specific criteria that satisfy the applicable requirements of this part and the rules promulgated under this part. The department shall utilize only reasonable and relevant exposure pathways in determining the adequacy of a site specific criterion. Additionally, the department may approve a remedial action plan for a designated area-wide zone encompassing more than 1 facility, and may consolidate remedial actions for more than 1 facility.

(3) The department shall develop cleanup criteria pursuant to subsection (1) based on generic human health risk assessment assumptions determined by the department to appropriately characterize patterns of human exposure associated with certain land uses. The department shall utilize only reasonable and relevant exposure pathways in determining these assumptions. The department may prescribe more than 1 generic set of exposure assumptions within each category described in subsection (1). If the department prescribes more than 1 generic set of exposure assumptions within a category, each set of exposure assumptions creates a subcategory within a category described in subsection (1). The department shall specify site characteristics that determine the applicability of criteria derived for these categories or subcategories.

(4) If a hazardous substance poses a carcinogenic risk to humans, the cleanup criteria derived for cancer risk under this section shall be the 95% upper bound on the calculated risk of 1 additional cancer above the background cancer rate per 100,000 individuals using the generic set of exposure assumptions established under subsection (3) for the appropriate category or subcategory. If the hazardous substance poses a risk of an adverse health effect other than cancer, cleanup criteria shall be derived using appropriate human health risk assessment methods for that adverse health effect and the generic set of exposure assumptions established under subsection (3) for the appropriate category or subcategory. A hazard quotient of 1.0 shall be used to derive noncancer cleanup criteria. For the noncarcinogenic effects of a hazardous substance present in soils, the intake shall be assumed to be 100% of the protective level, unless compound and site-specific data are available to demonstrate that a different source contribution is appropriate. If a hazardous substance poses a risk of both cancer and 1 or more adverse health effects other than cancer, cleanup criteria shall be derived under this section for the most sensitive effect.

(5) If a cleanup criterion derived under subsection (4) for groundwater in an aquifer differs from either: (a) the state drinking water standard established pursuant to section 5 of the safe drinking water act, Act No. 399 of the Public Acts of 1976, being section 325.1005 of the Michigan Compiled Laws, or (b) criteria for adverse aesthetic characteristics derived pursuant to R 299.5709 of the Michigan administrative code, the cleanup criterion shall be the more stringent of (a) or (b) unless the department determines that compliance with this rule is not necessary because the use of the aquifer is reliably restricted pursuant to section 20120b(4) or (5).

(6) The department shall not approve of a remedial action plan in categories set forth in subsection (1)(b) to (j), unless the person proposing the plan documents that the current zoning of the property is consistent with the categorical criteria being proposed, or that the governing zoning authority intends to change the zoning designation so that the proposed criteria are consistent with the new zoning designation, or the current property use is a legal nonconforming use. The department shall not grant final approval for a remedial action plan that relies on a change in zoning designation until a final determination of that zoning change has been made by the local unit of government. The department may approve of a remedial action that achieves categorical criteria that is based on greater exposure potential than the criteria applicable to current zoning. In addition, the remedial action plan shall include documentation that the current property use is consistent with

the current zoning or is a legal nonconforming use. Abandoned or inactive property shall be considered on the basis of zoning classifications as described above.

(7) Cleanup criteria from 1 or more categories in subsection (1) may be applied at a facility, if all relevant requirements are satisfied for application of a pertinent criterion.

(8) Except as provided in subsection (4) and subsections (9) to (13), compliance with the residential category in subsection (1)(a) shall be based on R 299.5709 through R 299.5711(4), R 299.5711(6) through R 299.5715 and R 299.5727 of the Michigan administrative code. R 299.5711(5), R 299.5723, and R 299.5725 of the Michigan administrative code shall not apply for calculations of residential criteria under subsection (1)(a).

(9) The need for soil remediation to protect an aquifer from hazardous substances in soil shall be determined by R 299.5711(2) of the Michigan administrative code, considering the vulnerability of the aquifer or aquifers potentially affected if the soil remains at the facility. Migration of hazardous substances in soil to an aquifer is a pertinent pathway if appropriate based on consideration of site specific factors.

(10) The department may establish cleanup criteria for a hazardous substance using a biologically based model developed or identified as appropriate by the United States environmental protection agency if the department determines all of the following:

(a) That application of the model results in a criterion that more accurately reflects the risk posed.

(b) That data of sufficient quantity and quality are available for a specified hazardous substance to allow the scientifically valid application of the model.

(c) The United States environmental protection agency has determined that application of the model is appropriate for the hazardous substance in question.

(11) If the cleanup criterion for a hazardous substance determined by R 299.5707 of the Michigan administrative code is greater than a cleanup criterion developed for a category pursuant to subsection (1), the criterion determined pursuant to R 299.5707 of the Michigan administrative code shall be the cleanup criterion for that hazardous substance in that category.

(12) In determining the adequacy of a land-use based response activity to address sites contaminated by polychlorinated biphenyls, the department shall not require response activity in addition to that which is subject to and complies with applicable federal regulations and policies that implement the toxic substances control act, Public Law 94-469, 15 U.S.C. 2601 to 2629, 2641 to 2656, 2661 to 2671, and 2681 to 2692.

(13) Response activity to address the release of uncontaminated mineral oil satisfies R 299.5709 for groundwater or R 299.5711 for soil under the Michigan administrative code if all visible traces of mineral oil are removed from groundwater and soil.

(14) Approval by the department of a remedial action plan based on 1 or more categorical standard in subsection (1)(a) to (e) shall be granted only if the pertinent criteria are satisfied in the affected media. The department shall approve the use of probabilistic or statistical methods or other scientific methods of evaluating environmental data when determining compliance with a pertinent cleanup criterion if the methods are determined by the department to be reliable, scientifically valid, and best represent actual site conditions and exposure potential.

(15) If a remedial action allows for venting groundwater, the discharge shall comply with requirements of part 31, and the rules promulgated under that part or an alternative method established by rule. If the discharge of venting groundwater is provided for in a remedial action plan that is approved by the department, a permit for the discharge is not required. As used in this subsection, "venting groundwater" means groundwater that is entering a surface water of the state from a facility.

(16) A remedial action plan shall provide response activity to meet the residential categorical criteria, or provide for acceptable land use or resource use restrictions pursuant to section 20120b.

(17) A remedial action plan that relies on categorical cleanup criteria developed pursuant to subsection (1) shall also consider other factors necessary to protect the public health, safety, and welfare, and the environment as specified by the department, if the department determines based on data and existing information that such considerations are relevant to a specific facility. These factors include, but are not limited to, the protection of surface water quality and consideration of ecological risks if pertinent to the facility based on the requirements of R 299.5717 of the Michigan administrative code.

(18) The department shall annually evaluate and revise, if appropriate, the cleanup criteria derived under this section. The evaluation shall incorporate knowledge gained through research and studies in the areas of fate and transport and risk assessment. The department shall prepare and submit to the legislature a report detailing revisions made to cleanup criteria under this section.

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